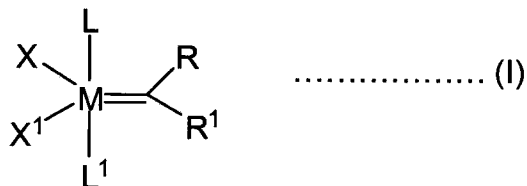


## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A metathesis reaction between at least two olefinic compounds which are the same or different, each olefinic compound being a non-cyclic olefin or a compound which includes a non-cyclic olefinic moiety comprising ~~carryout~~ carrying out the metathesis reaction in the presence of a catalyst of formula (I):



wherein:

M is ruthenium or osmium;

X and X<sup>1</sup> are independently selected from an anionic ligand;

R and R<sup>1</sup> are independently selected from H or an organyl group; and

L and L<sup>1</sup> are independently selected from any neutral electron donor ligand, provided that neither L or L<sup>1</sup> is a N-heterocyclic carbene compound, wherein a carbene carbon atom is co-ordinated to M;

and wherein the metathesis reaction is carried out in the presence of a phenolic compound in the form of a phenol or a substituted phenol, which substituted phenol

includes at least one hydroxyl and at least one further moiety other than H and OH attached to an arene ring.

2. (Original) The metathesis reaction as claimed in Claim 1, wherein a product is produced which does not include a cyclic moiety formed by the metathesis reaction.

3. (Original) The metathesis reaction as claimed in either one of claims 1 or 2, wherein the metathesis reaction is between two non-cyclic olefins which are the same or different.

4. (Original) The metathesis reaction as claimed in claim 3 wherein each of the non-cyclic olefins comprises an olefin with a single double bond.

5. (Original) The metathesis reaction as claimed in claim 4, wherein the metathesis reaction is between ethylene and an internal non-cyclic olefin.

6. (Original) The metathesis reaction as claimed in claim 4, wherein the metathesis reaction is between two non-cyclic olefins which are the same.

7. (Original) The metathesis reaction as claimed in claim 6, wherein the non-cyclic olefins are both a non-branched 1-alkene.

8. (Original) The metathesis reaction as claimed in claim 3, wherein the metathesis reaction is between at least two non-cyclic olefins of which at least one is contained in a feedstock derived from a Fischer-Tropsch reaction.

9. (Original) The metathesis reaction as claimed in claim 8, wherein the feedstock contains at least one impurity selected from the group consisting of a carbonyl containing compound, an alcohol, an aromatic compound, a diene, a triene, an alkyne and an aldehyde.

10. (Previously Presented) The metathesis reaction as claimed in claim 1, wherein M in formula (I) is ruthenium.

11. (Currently Amended) The metathesis reaction as claimed in claim 1, wherein X and X<sup>1</sup> are independently selected from the group consisting of hydrogen; halide; and a compound selected from the group consisting of C<sub>1</sub> - C<sub>20</sub> alkyl; aryl; C<sub>1</sub> - C<sub>20</sub> alkoxide; aryloxide; C<sub>3</sub> - C<sub>20</sub> alkyldiketonate; aryldiketonate; C<sub>1</sub> - C<sub>20</sub> carboxylate; arylsulfonate; C<sub>1</sub> - C<sub>20</sub> alkylsulfonate; C<sub>1</sub> - C<sub>20</sub> alkylthiol; aryl thiol; C<sub>1</sub> - C<sub>20</sub> alkylsulfonyl; and C<sub>1</sub> - C<sub>20</sub> alkylsulfinyl, the compound being optionally substituted with one or more other moieties selected from the group consisting of C<sub>1</sub> - C<sub>10</sub> alkyl; C<sub>1</sub> - C<sub>10</sub> alkoxy; aryl and halide.

12. (Currently Amended) The metathesis reaction as claimed in claim 1, wherein X and X<sup>1</sup> are each chloride.

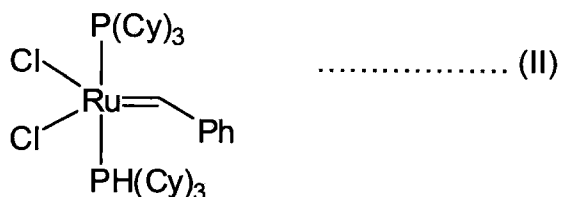
13. (Previously Presented) The metathesis reaction as claimed in claim 1, wherein R and R<sup>1</sup> are each independently selected from the group consisting of hydrogen and an organyl selected from the group consisting of C<sub>1</sub> - C<sub>20</sub> alkyl; C<sub>2</sub> - C<sub>20</sub> alkenyl; C<sub>2</sub> - C<sub>20</sub> alkynyl; aryl; C<sub>1</sub> - C<sub>20</sub> carboxylate; C<sub>1</sub> - C<sub>20</sub> alkoxy; C<sub>2</sub> - C<sub>20</sub> alkenyloxy; C<sub>2</sub> - C<sub>20</sub> alkynyloxy; aryloxy; C<sub>2</sub> - C<sub>20</sub> alkoxycarbonyl; C<sub>1</sub> - C<sub>20</sub> alkylthiol; aryl thiol; C<sub>1</sub> - C<sub>20</sub> alkylsulfonyl and C<sub>1</sub> - C<sub>20</sub> alkylsulfinyl, the organyl being optionally substituted with one or more moieties selected from the group consisting of C<sub>1</sub> - C<sub>20</sub> alkyl; C<sub>1</sub> - C<sub>20</sub> alkoxy; aryl; and a functional group selected from the group consisting of hydroxyl; thiol; thioether; ketone; aldehyde; ester; ether; amine; imine; amide; nitro; carboxylic acid; disulfide; carbonate; isocyanate; carbodiimide; carboalkoxy; carbamate; and halogen.

14. (Original) The metathesis reaction as claimed in claim 13, wherein R is H and R<sup>1</sup> is phenyl or – C=C(CH<sub>3</sub>)<sub>2</sub>.

15. (Previously Presented) The metathesis reaction as claimed in claim 1, wherein L and L<sup>1</sup> are each independently selected from the group consisting of phosphine, sulfonated phosphine, phosphite, phosphinite, phosphonite, arsine, stibine, amine, amide, imine, nitrosyl and pyridine.

16. (Previously Presented) The metathesis reaction as claimed in claim 1, wherein each of L and L<sup>1</sup> comprises a compound containing phosphorus.

17. (Original) The metathesis reaction as claimed in claim 16, wherein the catalyst of formula I is a compound of formula (II):



wherein Cy is cyclohexyl.

18. (Previously Presented) The metathesis reaction as claimed in claim 1, wherein the phenolic compound comprises a phenol.

19. (Original) The metathesis reaction as claimed in claim 18, wherein the phenolic compound comprises phenol.

20. (Previously Presented) The metathesis reaction as claimed in any claim 1, wherein the phenolic compound is a substituted phenol, which substituted phenol includes at least one hydroxyl and at least one further moiety other than H and OH attached to an arene ring.

21. (Previously Presented) The metathesis reaction as claimed in claim 1, wherein the phenolic compound comprises an optionally substituted polyaromatic phenol.

22. (Currently Amended) The metathesis reaction as claimed in claim 1, wherein the molar ratio of phenolic compound to catalyst is from 1 to 5000 molar equivalents of phenolic compound to ruthenium or osmium.

23-25. (Cancelled).